Common Assumptions Effort - Update –

November 4, 2002

Presentation to:

BDPAC

Water Use Efficiency Subcommittee

Presentation Overview

- Context for Common Assumptions baseline development
- Overview of demand management quantities
- Contact information

Purpose for Common Assumptions

Why . . .

- ⇒ Develop consistency among individual projects
- ⇒ Improve efficiency of completing studies
- ⇒ Assist with Section 404 and ESA issues

How . . .

- ⇒ Develop baselines for comparative analysis
- ⇒ Allow projects to assess:
 - Feasibility given fixed levels of "soft-path" actions
 - The change in benefits to beneficiaries

Baseline Development

Look at various analysis tools used by water supply investigations

⇒ CALSIM, LCPSim, CalAg, DSM 2, MWD's IRP, others

Ask question:

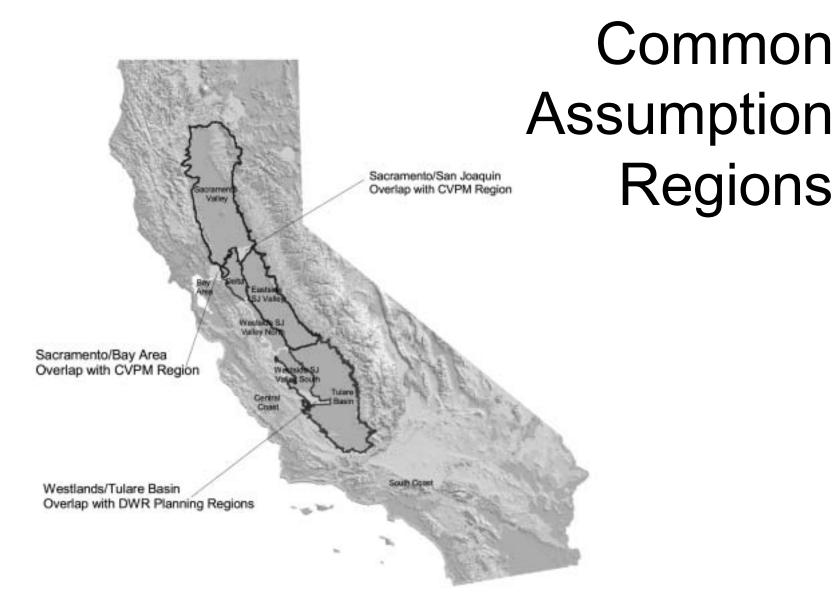
"What is the implication of assumed levels of soft-path actions on inputs to these tools?"

Approach

- Step 1 Craft framework for comparative analysis
- Step 2 Estimate future soft-path quantities
 - ⇒ Future No Action (2030)
 - Conditions and actions (both changes in demand and supply) that are reasonably foreseeable
 - Modest trends
 - Correlate with Water Plan Update "scenarios"
 - ⇒ Alternative Future (2030)
 - Includes demand reduction as well as assumed levels of conjunctive use and transfers consistent with and supported by CALFED
 - Aggressive trends
- Step 3 Determine implication of quantities on analysis tool inputs and adjust where necessary

Demand Management Quantification

- Use existing data sources
 - ⇒ Extrapolate to 2030 where appropriate
 - Revising recycling values for Future No Action level to correlate with Urban Water Plan quantification approach
- Continued communications between 3 efforts
 - CALFED WUE, Water Plan Update and Common Assumptions
 - Allow values to be revisited based on outcome of these other efforts



Example Regional Table

	Future No Action Baseline (at 2030)			Alternative Future Baseline (at 2030)					
	Annual Benefit ¹			Annual Benefit ¹					
		nal B. Normal		Critical	Wet		B. Normal		Critical
	(Values ro	unded to the ne	earest 5,000	af)	(V	alues round	ed to the ne	earest 5,000	af)
Demand Reduction									
Ag Conservation						ı	T	1	•
Recoverable loss									
reduction ²									
Irrecoverable loss									
reduction ³									
Non-productive ET									
reduction ⁴			<u> </u>						
Urban Conservation			1						
Recoverable loss									
reduction ²									
Irrecoverable loss									
reduction ³									
Land Fallowing ⁸									
Supply Augmentation		_					T		
Recycling ⁵									
Transfers ⁶									
into region									
out of region									
within region									
Desalination ⁷									

Statewide Totals

(1,000 acre-feet)

	No Action	Alt.Future	
	(2030)	(2030)	
Ag Conservation	195	815	
Urban Conservation	1,080	2,080	
Recycling	460	1,075	
(coastal regions only)	400	1,070	
Desalination	50	125	
(coastal regions only)	30	120	
Land Fallowing	15	230	
(Westlands WD only)	15	230	

Ag Conservation

	2030 Future No Action Condition				2030 Alternative Future Condition			
	Recoverable Losses	Irrecoverable Losses	Non-Productive ET Losses	Total	Recoverable Losses	Irrecoverable Losses	Non-Productive ET Losses	Total
	(Val	ues rounded to	o nearest 5,000 af)		(Values rounded to nearest 5,000 af)			
Sacramento	60	10	10	80	240	30	35	305
Delta	25	0	0	25	100	0	5	105
West San Joaquin North	n/a	0	0	0	n/a	10	10	20
West San Joaquin South	0	5	0	5	0	25	10	35
East San Joaquin	30	0	10	40	125	5	40	170
Tulare Basin	n/a	25	15	40	n/a	95	60	155
SF Bay	0	0	0	0	0	5	0	5
Central Coast	0	0	0	0	0	0	0	0
South Coast	0	5	0	5	0	20	0	20
Total	115	45	35	195	465	190	160	815

Urban Conservation

	2030 No Action Condition			2030 Alternative Future Condition			
	Recoverable	Irrecoverable		Recoverable	Irrecoverable		
	Losses	Losses	Total	Losses	Losses	Total	
	(Values rou	ınded to neares	st 5,000 af)	(Values rounded to nearest 5,000 af)			
Sacramento	80	0	80	270	15	285	
Delta	5	0	5	5	0	5	
West San Joaquin North	0	0	0	0	0	0	
West San Joaquin South	0	0	0	0	0	0	
East San Joaquin	25	0	25	220	10	230	
Tulare Basin	40	15	55	125	50	175	
SF Bay	20	185	205	25	225	250	
Central Coast	0	55	55	0	80	80	
South Coast	130	525	655	210	845	1,055	
Total	300	780	1,080	855	1,225	2,080	

Others

• Recycling (only estimated for coastal regions)

	No Action	Alt. Future
South Coast	365	850
Central Coast	40	75
Bay Area	55	150

• Desalination (only estimated for coastal regions)

	No Action	Alt. Future
South Coast	50	125

Land Retirement

	No Action	Alt. Future
W. SJV South	15	230

Summary

- Soft-path actions are important element of water supply evaluations
- Next step is to adjust analysis tool inputs
- We want your comments

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